



# SEQUENCE LISTING

<110> Anderson, W. French  
Gordon, Erlinda Maria  
Hall, Frederick L.  
Starnes, Vaughn A

<120> Modified viral surface proteins for binding to extracellular  
matrix components

<130> 271010-463

<140> US 09/904,923  
<141> 2001-07-13

<150> US 08/837,223  
<151> 1997-04-10

<160> 8

<170> PatentIn version 3.1  
<210> 1  
<211> 229  
<212> PRT  
<213> Moloney murine leukemia virus

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Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His  
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Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu  
35 40 45

Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe  
50 55 60

Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly  
65 70 75 80

Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys  
85 90 95

Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser  
100 105 110

Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser  
115 120 125

Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys  
130 135 140

Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser Trp Asp Phe  
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Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys  
165 170 175

Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala  
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Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg  
195 200 205

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Arg Tyr Gln Asn Leu  
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<212> DNA

<213> Moloney murine leukemia virus

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gggccccacc gcccccgaga atccaagtca tgtgggggtc cagactcctt ctactgtgcc      420
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tggtgcaacc ccttagttat tcggtttaca gacgccggga gacgggttac ttcctggacc      600
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<223> collagen-binding domain of von Willebrand Factor

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<212> DNA

<213> Artificial

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<223> DNA encoding collagen-binding domain of von Willebrand  
Factor

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#197512 v1